



Handwritten: # IFW C.C.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/723,365	
	Filing Date	November 26, 2003	
	First Named Inventor	Van den Boom	
	Art Unit	1637	
	Examiner Name	WOOLWINE, SAMUEL C	
Total Number of Pages in This Submission	22	Attorney Docket Number	SEQ-2073-UT

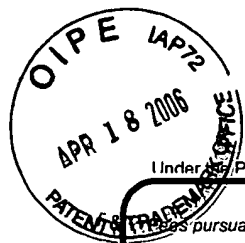
ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks Form PTO-2038 in the amount of \$180.00 (1 page) 214 Documents Cover letter (3 pages) SB/08A (13 pages) Fee Transmittal in duplicate (2 pages) Transmittal form in duplicate (2 pages) Return Postcard (1 page)	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application		
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Biotechnology Law Group		
Signature	<i>[Handwritten Signature]</i>		
Printed name	Bruce Grant		
Date	<i>April 14, 2006</i>	Reg. No.	47,608

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	<i>[Handwritten Signature]</i>		
Typed or printed name	Reginald Gaudino	Date	14 April 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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Pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2006

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/723,365
Filing Date	November 26, 2003
First Named Inventor	Van den Boom
Examiner Name	WOOLWINE, SAMUEL C
Art Unit	1637
Attorney Docket No.	SEQ-2073-UT

METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: _____ Deposit Account Name: _____

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☐ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims: 0 - 20 or HP = 0 x 0 = 0
HP = highest number of total claims paid for, if greater than 20.

Indep. Claims: 0 - 3 or HP = 0 x 0 = 0
HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims
Fee (\$): 0
Fee Paid (\$): 0

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets: 0 - 100 = 0 / 50 = 0 (round up to a whole number) x 0 = 0

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Information Disclosure Statement \$180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 47,608	Telephone (858) 623-9470
Name (Print/Type)	Bruce Grant		Date 14 April 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Application No. 10/723,365

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	VAN DEN BOOM and BOECKER	Examiner:	WOOLWINE, SAMUEL C
Serial No.:	10/723,365	Group Art Unit:	1637
Filed:	November 26, 2003	Docket:	SEQ-2073-UT
Conf. No.:	4199		
Title:	Fragmentation-based methods and systems for sequence variation detection and discovery.		

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam,

In compliance with the duty under 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the Examiner's attention for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form SB08A be considered by the Examiner and made of record. Pursuant to MPEP 609, Applicants request that a copy of the SB08A form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Owing to the size of this Information Disclosure are the following co-pending related applications:

- (1) application no. 10/933,611 (Attorney Docket No. SEQ-2069-UT, Examiner Stephanie Kane Mummert), filed September 2, 2004, and published as US 2005-0089904 A1, April 28, 2005,
- (2) application no. 11/222,991 (Attorney Docket No. SEQ-2072-UT), filed September 8, 2005, and published as US 2006-0073501 A1 on April 6, 2006.

INFORMATION DISCLOSURE STATEMENT

Serial No.: 10/723,365

Dkt: SEQ-2073-UT

Filing Date: November 26, 2003

Title: Fragmentation-based methods and systems for sequence variation detection and discovery.

(3) application no. 10/830,943 (Attorney Docket No. SEQ-2070-UT, Examiner Eric S. DeJong), filed April 22, 2004, and published as US 2005-0009053 A1, January 13, 2005,

(4) application no. 11/089,805 (Attorney Docket No. SEQ-2080-UT, Examiner Stephanie Kane Mummert) filed March 24, 2005, and published as US 2005-0272070 A1, December 8, 2005, and

(5) application no. 10/272,665 (Attorney Docket No. SEQ-2033-DV4, Examiner Lori A. Clow), filed October 15, 2002 and published as US 2003-0180748 A1, September 25, 2003.

Applicants also bring to the Examiner's attention that the following foreign patent documents, items A123-A126, have an English Language abstract provided on the face of the Foreign Patent document.

Applicants also respectfully inform the Examiner that one of the Foreign Patent documents is submitted without the sequence listings or figures, as the document is 493 pages long and the sequence listing and figures are over 200 pages in length. Applicants can provide the intervening pages upon request by the Examiner. The page ranges provided for the Foreign Patent document includes all text up to the sequence listing and figures, as well as all text at the end of the document, the latter of which includes WIPO documents such as the International Search Report. The page ranges are as follows: WO 98/20166, pages 1-240, 339-356, and 470-493.

The listed documents are being submitted in compliance with 37 CFR § 1.97(b), after the mailing date of the first office action on the merits, but prior to the final office action. Accordingly, Applicants respectfully submit payment of \$180.00.

INFORMATION DISCLOSURE STATEMENT

Serial No.: 10/723,365

Dkt: SEQ-2073-UT

Filing Date: November 26, 2003

Title: Fragmentation-based methods and systems for sequence variation detection and discovery.

If any additional fees are due, please contact the undersigned attorney at (858) 623-9470.

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

Date April 14, 2006

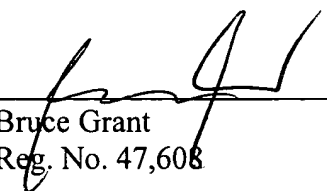
BioTechnology Law Group
527 N. Highway 101, Suite E
Solana Beach, CA 92075-1173

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Fax: (858) 623-9476

Email: bruce@biotechnologylawgroup.com

By



Bruce Grant
Reg. No. 47,608



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/723,365
Filing Date	November 26, 2003
First Named Inventor	Van den Boom
Group Art Unit	1637
Examiner Name	WOOLWINE, SAMUEL C

Sheet 1 of 1

Attorney Docket No: SEQ-2073-UT

US PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1.	US 0009394	1/24/2002	Koster et al	
	A2.	US 0042112	4/11/2002	Koster et al	
	A3.	US 0155587	10/24/2002	Opalsky et al	
	A4.	US 2001-0008615	7/19/2001	Little et al	
	A5.	US 2002-0009394 A1	1/24/2002	Koster et al.	
	A6.	US 2003-0027169	2/6/2003	Zhang et al	
	A7.	US 2003-0082600	5/1/2003	Olek et al.	
	A8.	US 2003-0129589	7/10/2003	Koster et al	
	A9.	US 2003-0180779	9/25/2003	Lofton-Day, Cathy E. et al.	
	A10.	US 2004-0029258 A1	2/12/2004	Heaney et al.	
	A11.	US 2005-0009053	1/13/2005	Boecker et al.	
	A12.	US 2005-0112590	5/26/2005	van den Boom et al	
	A13.	US 4683195	7/28/1987	Mullis et al	
	A14.	US 4683202	7/28/1987	Mullis	
	A15.	US 4826360	5/2/1989	Iwasawa et al	
	A16.	US 4851018	7/25/1989	Lazzari et al	
	A17.	US 5079342	1/7/1992	Alizon et al.	
	A18.	US 5118937	6/2/1992	Hillenkemp et al	
	A19.	US 5173418	12/22/1992	Molin et al.	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/723,365
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First Named Inventor	Van den Boom
Group Art Unit	1637
Examiner Name	WOOLWINE, SAMUEL C
Attorney Docket No: SEQ-2073-UT	

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US PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A20.	US 5252478	10/12/1993	Margarit Y Ros et al.	
	A21.	US 5264563	11/23/1993	Huse	
	A22.	US 5387518	2/7/1995	Sawayanagi et al.	
	A23.	US 5391490	2/21/1995	Varshavsky et al.	
	A24.	US 5427927	' 06/27/95	Meyer et al.	
	A25.	US 5436150	7/25/1995	Chandrasegaren	
	A26.	US 5440119	8/8/1995	Labowsky	
	A27.	US 5453613	9/26/1995	Gray et al	
	A28.	US 5498545	3/12/1996	Vestal	
	A29.	US 5503980	4/2/1996	Cantor	
	A30.	US 5506137	4/9/1996	Mathur	
	A31.	US 5536649	7/16/1996	Fraiser et al	
	A32.	US 5547835	8/20/1996	Koster	
	A33.	US 5578443	11/26/1996	Santamaria et al.	
	A34.	US 5604098	2/18/1997	Mead et al	
	A35.	US 5605798	2/25/1997	Koster	
	A36.	US 5622824	4/22/1997	Koster	
	A37.	US 5631134	5/20/1997	Cantor et al	
	A38.	US 5635713	8/3/1997	Labowsky	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/723,365
Filing Date	November 26, 2003
First Named Inventor	Van den Boom
Group Art Unit	1637
Examiner Name	WOOLWINE, SAMUEL C
Attorney Docket No: SEQ-2073-UT	

Sheet 3 of 3

US PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A39.	US 5646020	7/8/1997	Swiggen et al.	
	A40.	US 5686656	11/11/1997	Amirav et al	
	A41.	US 5691141	11/25/1997	Koster	
	A42.	US 5700672	12/23/1997	Mathur et al	
	A43.	US 5714330	2/3/1997	Brenner et al	
	A44.	US 5777324	7/7/1998	Hillenkamp	
	A45.	US 5786146	7/28/1998	Herman et al	
	A46.	US 5792664	8/11/1998	Chait et al	
	A47.	US 5795714	8/18/1998	Cantor et al	
	A48.	US 5807522	9/15/1998	Brown et al.	
	A49.	US 5837832	11/17/1998	Chee et al	
	A50.	US 5843669	12/1/1998	Kaiser et al	
	A51.	US 5851765	12/22/1998	Koster	
	A52.	US 5853979	12/29/1998	Green et al	
	A53.	US 5858705	1/12/1999	Wei et al	
	A54.	US 5869242	2/9/1999	Kamb	
	A55.	US 5871991	2/16/1999	Dahlberg et al	
	A56.	US 5872003	2/16/1999	Koster	
	A57.	US 5874283	2/23/1999	Harrington et al	

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Application Number	10/723,365
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First Named Inventor	Van den Boom
Group Art Unit	1637
Examiner Name	WOOLWINE, SAMUEL C

Sheet 4 of 4

Attorney Docket No: SEQ-2073-UT

US PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A58.	US 5885841	3/23/1999	Higgs Jr. et al	
	A59.	US 5888795	5/30/1999	Hamilton	
	A60.	US 5900481	06/04/99	Lough et al	
	A61.	US 5928870	07/27/99	Lapidus et al	
	A62.	US 5928906	7/27/1999	Koster et al	
	A63.	US 5952176	09/14/99	McCarthy et al	
	A64.	US 5975492	11/02/99	Brenes	
	A65.	US 5976806	11/02/99	Mahejan et al	
	A66.	US 6017704	01/26/00	Herman et al	
	A67.	US 6022688	02/08/00	Jurinke et al	
	A68.	US 6024925	2/15/2000	Little et al.	
	A69.	US 6043031	03/28/00	Koster et al	
	A70.	US 6054276	04/25/00	Macavicz	
	A71.	US 6059724	5/6/2000	Campell et al.,	
	A72.	US 6074823	06/13/00	Koster et al	
	A73.	US 6090606	07/18/00	Kaiser et al	
	A74.	US 6099553	08/08/00	Hart et al	
	A75.	US 6110426	8/29/2000	Shalon et al.	
	A76.	US 6111261	08/29/00	Hillenkemp	

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Examiner Name	WOOLWINE, SAMUEL C
Attorney Docket No: SEQ-2073-UT	

Sheet 5 of 5

US PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A77.	US 6112161	08/29/00	Dryden and Quimbly	
	A78.	US 6113436	9/5/2000	Kuwahara et al.	
	A79.	US 6133436	10/17/00	Koster et al	
	A80.	US 6140053	10/31/00	Koster et al	
	A81.	US 6146854	11/14/00	Koster et al	
	A82.	US 6188064	02/13/01	Koster	
	A83.	US 6190865(B1)	2/20/2001	Jendrisaket al.	
	A84.	US 6194144	2/27/2001	Koster	
	A85.	US 6194180(B1)	2/27/2001	Joyce	
	A86.	US 6197498	3/6/2001	Koster	
	A87.	US 6200756	3/13/2001	Herman et al	
	A88.	US 6207370	03/27/01	Little et al	
	A89.	US 6214556	04/01/01	Olek et al	
	A90.	US 6221605	4/24/2001	Koster	
	A91.	US 6225450	05/01/01	Koster	
	A92.	US 6235478	5/22/2001	Koster	
	A93.	US 6265171	7/24/2001	Herman et al	
	A94.	US 6268131	7/31/2001	Kang et al	
	A95.	US 6270835	8/7/2001	Hunt et al.	

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Sheet 6 of 6

US PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A96.	US 6271037	08/07/2001	Chait et al.	
	A97.	US 6277573	08/21/01	Koster et al	
	A98.	US 6300076	10/09/01	Koster	
	A99.	US 6322970	11/27/01	Little et al	
	A100.	US 6423965	07/23/02	Hillenkemp et al	
	A101.	US 6428955	08/06/02	Koster et al	
	A102.	US 6428955	8/6/2002	Koster et al	
	A103.	US 6436635	08/20/02	Fu et al	
	A104.	US 6475736	11/5/2002	Stanton Jr.	
	A105.	US 6522477	2/18/2003	Anhalt	
	A106.	US 6537746	5/25/2003	Arnold et al	
	A107.	US 6566055	05/20/03	Monforte et al	
	A108.	US 6589485	07/08/03	Koster	
	A109.	US 6602662	08/05/03	Koster et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
	A110.	EP 0296781	6/20/1988	Hunkapiller		
	A111.	EP 0299652	7/1/1988	Lacey		
	A112.	EP 0332,435	9/13/1989	Newton and Markham		
	A113.	EP 0395481	4/23/1990	Tomlinson		
	A114.	EP 0596205	5/11/1994	Bullaughay et al.		

EXAMINER**DATE CONSIDERED**

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Application Number	10/723,365
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First Named Inventor	Van den Boom
Group Art Unit	1637
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached